[illegible], . . A.

Classification of natural waters. p. 86.

A paper found in the symposium "Works of the Laboratory of Hydrogeological Problems [illegible] V. I. Vernadskiy", Vol. III (1948), Moscow-Leningrad.

SULIN, V. V.

"Choice of Units of Measurement for Use with Radioactive Survey Instruments," Utilization of Radioactive Isotopes & Emanations in the Petroleum Industry (Symposium), Min. Petroleum Industry USSR, 1957.

Results of the Joint Session of the Technical Council of Min of the Petroleum Industry USSR and Soviet Sci and Technical Association, Moscow 14-19 Mar 1956.

ZAPOROZHETS, V.M.; SULIN, V.V.

Method for standardizing gamma logging and neutron gamma logging curves. Razved.i prom.geofiz.no.17:73-79 '57. (MIRA 10:12)
(Gamma rays--Industrial applications) (Oil well logging, Radiation)

14(5) PHASE I BOOK EXPLOITATION SOV/2220

Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Razvedochnaya i promyslovaya geofizika, vyp. 20 (Exploration and Industrial Geophysics, Nr 20) Moscow, Gostoptekhizdat, 1960. 87 p. (Series: Obsheye poleznoiskopayemykh opytom) 4,000 copies printed.

Ed.: M.K. Polenov; Exec. Ed.: Ye.G. Persiana; Tech. Ed.: A.S. Polenina.

PURPOSE: This booklet is intended for exploration geophysicists and geologists.

COVERAGE: This collection of articles includes discussions of improvements in seismic exploration techniques and interpretations of data obtained by the refracted and reflected wave method of seismic exploration. Individual articles discuss: the construction of gravimetric maps, improvements in industrial borehole equipment, the standardization of radioactive electrologging equipment, and methods for computing labor productivity in geophysical operations. A monogram to facilitate the interpretation of data and conditions when using gamma logging of boreholes is described. References accompany each article.

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Card 3/3

ZAPOROZHETS, V.M.; SULIN, V.V.

Some results obtained in well exploration using radioactive logging apparatus with scintillation counters. Razved.i prom. geofiz. no.29:78-82 '59. (MIRA 13:1)
(Oil well logging, Radiation)

ZAPOROZHETS, V.M.; SULIN, V.V.

First results of the use of a well neutron generator in radioactive logging. Prikl. geofiz. no.28:116-129 '60. (MIRA 14:3)
(Oil well logging, Radiation)

SOLIN, V. V.

PHASE I BOOK EXPLOITATION SOV/5592

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniy v narodnom khozyaystve SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy Vsesoyuznogo soveshchaniya 12 - 16 aprelya 1960 g. g. Riga, v 4 tomakh. t. 4: Poiski, razvedka i razrabotka poleznykh iskopayemykh (Radioactive Isotopes and Nuclear Radiation in the National Economy of the USSR; Transactions on the Symposium Held in Riga, April 12 - 16, 1960, in 4 volumes. v. 4: Prospecting, Surveying, and Mining of Mineral Deposits) Moscow, Gostoptekhizdat, 1961. 284 p. 3,640 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii

Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy; ed. of this volume: N. A. Speranskiy; Scientific ed.: M. A. Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel';

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Radioactive Isotopes and Nuclear (Cont.) SOV/5592

Tech. Ed.: A. S. Polosina.

PURPOSE : The book is intended for engineers and technicians dealing with the problems involved in the application of radioactive isotopes and nuclear radiation.

COVERAGE: This collection of 39 articles is Vol. 4 of the Transactions of the All-Union Conference of the Introduction of Radioactive Isotopes and Nuclear Reactions in the National Economy of the USSR. The Conference was called by the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR (State Scientific-Technical Committee of the Council of Ministers of the USSR), Academy of Sciences USSR, Gosplan SSSR (State Planning Committee of the Council of Ministers of the USSR), Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers of the USSR for Automation and Machine Building), and the Council of Ministers of the Latvian SSR. The reports summarized in this publication deal with the advantages, prospects, and

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development of radioactive methods used in prospecting, surveying, and mining of ores. Individual reports present the results of the latest scientific research on the development and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods in the field of engineering geology, hydrology, and the control of ore enrichment processes is analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Card 5/11

AUTHORS: Zaporozhets, V. M. and Sulin, V. V. S/[illegible]9/63/000002/126/127
D263/D307

TITLE: Possibility of the application of particle accelerators in petroleum and ore geophysics

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 2, 1963, 39, abstract 2D230 (In collection: Elektron. uskoriteli, Tomsk. Tomskiy un-t, 1961, 319-327)

TEXT: The authors discuss the shortcomings and limitations of the existing methods of radioactive logging and the regions of possible application of neutron generators with impulse and stationary radiation, and γ-generators, and also possibilities of the application of portable laboratory radiation generators. A description is given of a depth instrument for the radioactive logging with a continuous action neutron generator СГН-1 (SGN-1). The generator is fitted with a two-channel radiometer with scintillating counters, and is contained in a casing 102 mm in diameter and 4230 mm long. The instrument is filled with compressed nitrogen or carbon

Card 1/2

Possibility of the ...

dioxide, and is designed for operation with a three-core cable. A short description is given of individual parts of the apparatus. (15 refs.) [Abstracter's note: Complete translation.]

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S/058/63/000/001/016/120
A062/A101

AUTHOR: Anan'yev, L. M., Sulin, V. V., Chakhlov, V. L.

TITLE: Design of small-size induction accelerator for investigation of bore-holes

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 40, abstract 1A378 (In collection: "Elektron. uskoriteli". Tomsk, Tomskiy un-t, 1961, 328 - 334)

TEXT: Requirements are formulated for a betatron intended to investigate bore-holes by the method of logging. A brief description is given of the 6.5 MeV betatron construction, designed for these purposes in the Tomsk Polytechnic Institute. The electromagnet of the accelerator together with the sealed off vacuum chamber is placed within an experimental device having an external diameter of 200 mm and a length of 830 mm.

V. Kanunnikov

[Abstracter's note: Complete translation]

Card 1/1

ACCESSION NR: AT4001513 S/3035/63/000/000/0167/0187

AUTHOR: Sulin, V. V.

TITLE: Use of the gamma-activation method to study rock specimens

SOURCE: Yadernaya geofizika. Vy*pusk 1963 g. Moscow, 1963, 167-187

TOPIC TAGS: geochemistry, radiometry, Gamma radiometry, mineral investigation, mineral analysis, Gamma ray mineral analysis

ABSTRACT: Some results are reported obtained in the development of a method for γ-activation analysis of rock samples, carried out at the Vsesoyuzny'y nauchno-issledovatel'skiy institut Yadernoy geofiziki i geokhimii (All-Union Scientific Research Institute of Nuclear Geophysics and Geochemistry) of the Ministry of Geology and Mineral Conservation SSSR. The advantages of the use of γ quanta over neutrons are discussed, major among them being the fact that the thermal neutrons simultaneously activate many elements in the medium and the activation products become difficult to separate. An extensive list is prepared of the main parameters of (γ, n) reactions on nuclei of different isotopes of elements contained in rocks,

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ACCESSION NR: AT4001513

along with the characteristics of their radioactive decay products. It is concluded that rocks and the useful minerals contained in them differ in the photoneutron properties and this difference varies with the energy of the γ radiation incident on the rock. Most elements contained in the rocks are activated by high-energy γ radiation. The threshold of the γ-ray energy at which activation begins and the half life, character, and energy of the activation products differ for different nuclei. A procedure based on these differences is developed for γ activation analysis of samples of rocks and ores. It is emphasized that the method can be particularly useful in the investigation of rocks with complicated composition, since selective activation of the individual elements or groups of such elements, produced by varying the energy of the activating γ radiation, will facilitate the analysis. It is urged that small γ-quantum generators be rapidly developed for practical realization of promising photonuclear methods for the investigation of minerals and ores under field conditions and under well conditions. "These results were obtained during the course of work per-

Card 2/3

BERZEN, A. K.; VINOGRENTS, G. S.; SULIN, V. V.; SHORNIKOV, S. I.

"Gamma-activation analysis of rock samples."

report presented at Symp on Radiochemical Methods of Analysis, Salzburg, Austria, 19-23 Oct 64.

SVELIN, L.V., [illegible]

Use of the methods of nuclear physics in analyses and tests; a scientific session. Vest.AN SSSR 35 no.6:105-107 Je '65.
(MIRA 18:8)

SULINA, R.I.; NIKOL'SKAYA, L.A.

New procedure for the dressing of copper-zinc ores in the Central Ural Ore Dressing Plant. Obog.rud 5 no.2:3-8 '60. (MIRA 14:8)

(Ural Mountains—Ore dressing)

SULINA, R. I.; NIKOL'SKAYA, L. A.

Technology of cyanide-free separation of copper-zinc-pyrite ores. Trudy Mekhanobr no. 131:138-146 '62. (MIRA 17:5)

FUCHEROV, I.K.; SULINOV, V.I.; STEPANOV, P.A.

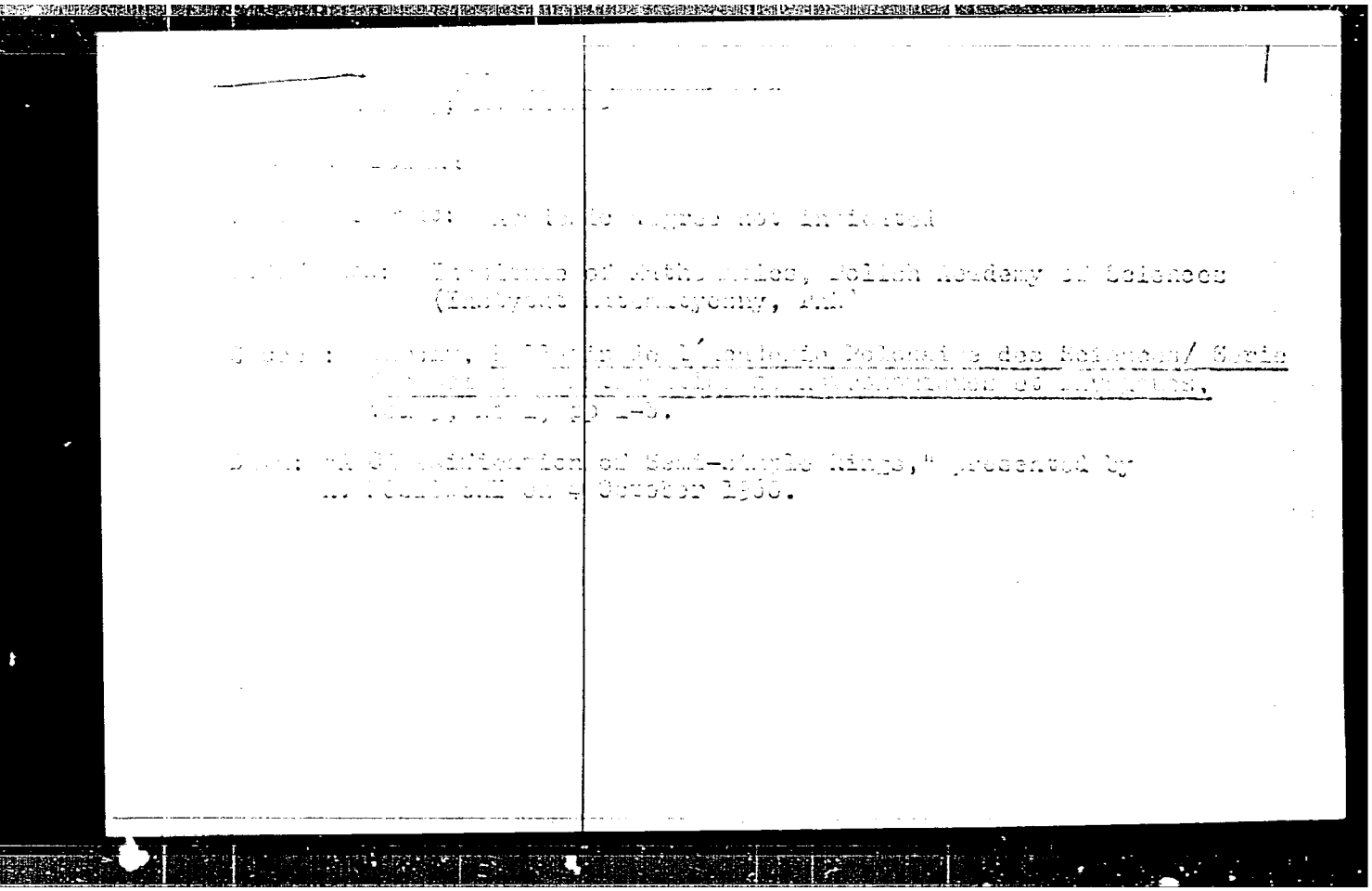
Devices for the setting and sharpening of cutters on the machinery. Der. prom. 14 no.9:28-29 S '65. (MIRA 18:12)

SULINSKI, A.

On subdirect sums of simple rings with unity. I. Bul Ac Pol mat 8 no.4:223-228 '60.

1. Institute of Mathematics, Polish Academy of Sciences. Presented by A. Mostowski.

(Rings(Algebra))



SULINSKI, A.

A classification of semi-simple rings. Bul Ac Pol mat 9 no.1:1-6 '61.

1. Institute of Mathematics, Polish Academy of Sciences. Presented by A. Mostowski.

(Spaces, Generalized)

SASIADA, E.; SULINSKI, A.

A note on Jacobson radical. Bul Ac Pol mat 10 no.8:421-423 '62.

1. Institute of Mathematics, Polish Academy of Sciences, Warsaw.
Presented by A. Mostowski.

SULINSKI, B.

"Rational preparation of raw materials for weaving." p. 161. (OZIEZ, Vol. 4, no. 8, Aug. 1953, Lodz, Poland)

SO: Monthly List of East European Accessions, L. C., Vol. 3, No. 5, May 1954, Uncl.

SULINSKI, Lech

Mitral stenosis as a surgical problem. Polski przegl. chir. 30 no.5: 574-576 May 58.
(MITRAL STENOSIS, surgery,
(Pol))

SULINSKI, Lech

Selective post-resection angiography. Postepy hig. med. dosw. no.2: 149 '60.

1. Z Oddzialu Chirurgii Torakalnej Szpitala Miejskiego w Poznaniu Ordynator: doc. dr Jan Moll.

(PNEUMONECTOMY) (ANGIOGRAPHY)

OLES, Andrzej; KURZEJA, Kazimierz; SULINSKI, Stanislaw

First cases of Q fever in Poland. Polski tygod. lek. 11 no.46: 1950-1955 12 Nov 56.

1. (Z Wojewodzkiej Stacji Sanitarno-Epidemiologicznej w Rzeszowie: Dyrektor: dr. Zygmunt Mazurek) adres: Rzesow, ul. Dabrowskiego 87, Wojew. Stacja Sanit.-Epidemiolog.
(Q FEVER, epidemiology,
in Poland, first cases (Pol))

SULIN'SKIY, A. Cand Phys-Math Sci -- (diss) "Certain problems of the general theory of radicals." Mos, 1957. 4 pp 21 cm. (Mos State Univ im M. V. Lomonosov. Mechanical and Mathematical Faculty), 100 copies (KL, 15-57, 104)

AUTHOR: Sulin'skiy, A. (Warsaw) 39-44-2-9/10

TITLE: Some Questions of the General Theory of Radicals (Nekotoryye voprosy obshchey teorii radikalov)

PERIODICAL: Matematicheskiy Sbornik, 1958, Vol 44, Nr 2, pp 273-286 (USSR)

ABSTRACT: The paper written under guidance of A.G. Kurosh is a certain complement to the well-known publication of Kurosh [Ref 5] concerning radicals of rings and algebras. An incomplete survey on the radicals in the class of all associative algebras of finite rank over a certain field Φ is given. A necessary condition for the regularity of the radical in the class of all nonassociative algebras is formulated. The property of hereditariness of a radical (a P-radical ring is hereditary, if all its ideals are P-ideals) is investigated in detail. It is shown that not all radicals possess this property. The existence of some other special radicals or pairs of radicals is proved by examples. On the whole the author proves 12 theorems and some lemmata; a whole paragraph of the paper is devoted to a summary of [Ref 5] . There are 6 references, 1 of which is Soviet, and 5 American.

Card 1/1

SUBMITTED: December 20, 1956

1. Matrix algebra-Radicals-Analysis 2. Rings-Radicals-Analysis

ACCESSION NR: AP4017187 Z/0039/64/025/003/0135/0138

AUTHOR: Sulista, Milan (Mathematician)

TITLE: A contribution to the realization of passive two-pole networks

SOURCE: Slaboproudy obzor, v. 25, no. 3, 1964, 135-138

TOPIC TAGS: foster preamble, Cauer form, two-pole network

ABSTRACT: The first part -- known in literature as Foster's preamble of most methods known for the realization of linear passive two-pole networks form a given impedence, consists in the removal of the j-axis poles and the zero points (the so-called critical points). Until now, this method necessitated the determination of all the critical points, i.e., the general solution of algebraic equations of higher degrees and the calculation of the residuals. A simple algebraic device (the expansion of the rational function into a finite chain fraction, the division of the polynomials and solution of a system of linear algebraic equations) eliminates this necessity. This device and the alogarithmic nature of all the calculations make it possible to solve the entire

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ACCESSION NR: AP4017187

problem with the use of automatic digital computers. The problem remains whether the impedence of RC or RL two-pole networks can be determined from a given rational positive function by means of an analogous method (i. e., without solving algebraic equations of higher degrees). Orig. art. has: 4 figures and 16 formulas.

ASSOCIATION: Katedra matematiky a deskriptivni geometrie na elektrotechnicke fakulte CVUT, Prague (Department of Mathematics and Descriptive Geometry at the Electrical Engineering Division of CVUT).

SUBMITTED: 25Jun63 DATE ACQ: 23Mar64 ENCL: 00

SUB CODE: GE, MM NO REF SOV: 000 OTHER: 004

Card 2/2

GREBENNIK, L.I.; SUKHANOVSKIY, V.P.; RYABOKON', N.A.; SULITSKIY, V.A.

Effect of antitubercular preparations on thiamine metabolism in pulmonary tuberculosis. Sov.med. 26 no.2: 45-51 F'63. (MIRA 16:6)

1. Iz otdela khimioterapii (zav. - prof. G.N.Pershin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S.Ordzhonikidze i kafedry tuberkuleza (zav. - prof. I.Ye. Kochnova) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.

(THIAMINE) (TUBERCULOSIS) (ISONIAZID) (PHTHIVAZIDE)

PHASE I BOOK EXPLOITATION SOV/4675

Gal'perin, Ye. I., and Yu. N. Sulitskiy

Poluprovodnikovyye logicheskiye pereklyuchayushchiye skhemy (Semiconductor Logical Switching Circuits) Moscow, Gosenergoizdat, 1960. 243 p. Errata slip inserted. No. of copies printed not given.

Ed.: V. G. Masharova; Tech. Ed.: B. V. Smurov.

PURPOSE: This survey is intended for specialists working in the field of semiconductor pulse devices and digital computers. It may also be used by students taking advanced courses in related fields at schools of higher technical education.

COVERAGE: The survey deals with problems of design and calculation of various semiconductor logical switching circuits and assemblies used in digital computers. Characteristic features of semiconductor switching devices are described, and basic circuit diagrams applied in semiconductor logical systems are analyzed. The basic sources of this survey are 5 English books and 5 articles in periodicals, published in the USA, and the Proceedings of a

Card 1/11

, T. .

, Viktor

[illegible] U.S.S.R. reports Keldysh, Viktor Vyshenko.
Vest. Akad. Nauk. U.S.S.R., no. 7, 1952.

[illegible] 1952. UNCLASSIFIED.

SULIYEVA, Ye.I.

Some biological features of the pistachio in the Ararat Plain.
Izv.AN Arm.SSR.Biol.i sel'khoz.nauki 7 no.8:45-50 Ag '54.
(MLRA 9:8)

1. Institut plodovodstva Akademii nauk Armyanskoy SSR.
(Ararat region--Pistachio)

SULIYEVA, Ya.I.

Characteristics of the pistachio forms grown in Oktemberyan District in the Armenian S.S.R. Izv.AN Arm.SSR Biol.i sel'khoz.nauki 9 no.6: 25-32 Je '56. (MLRA 9:9)
(Oktemberyan District--Pistachio)

SULJAGIC, T.

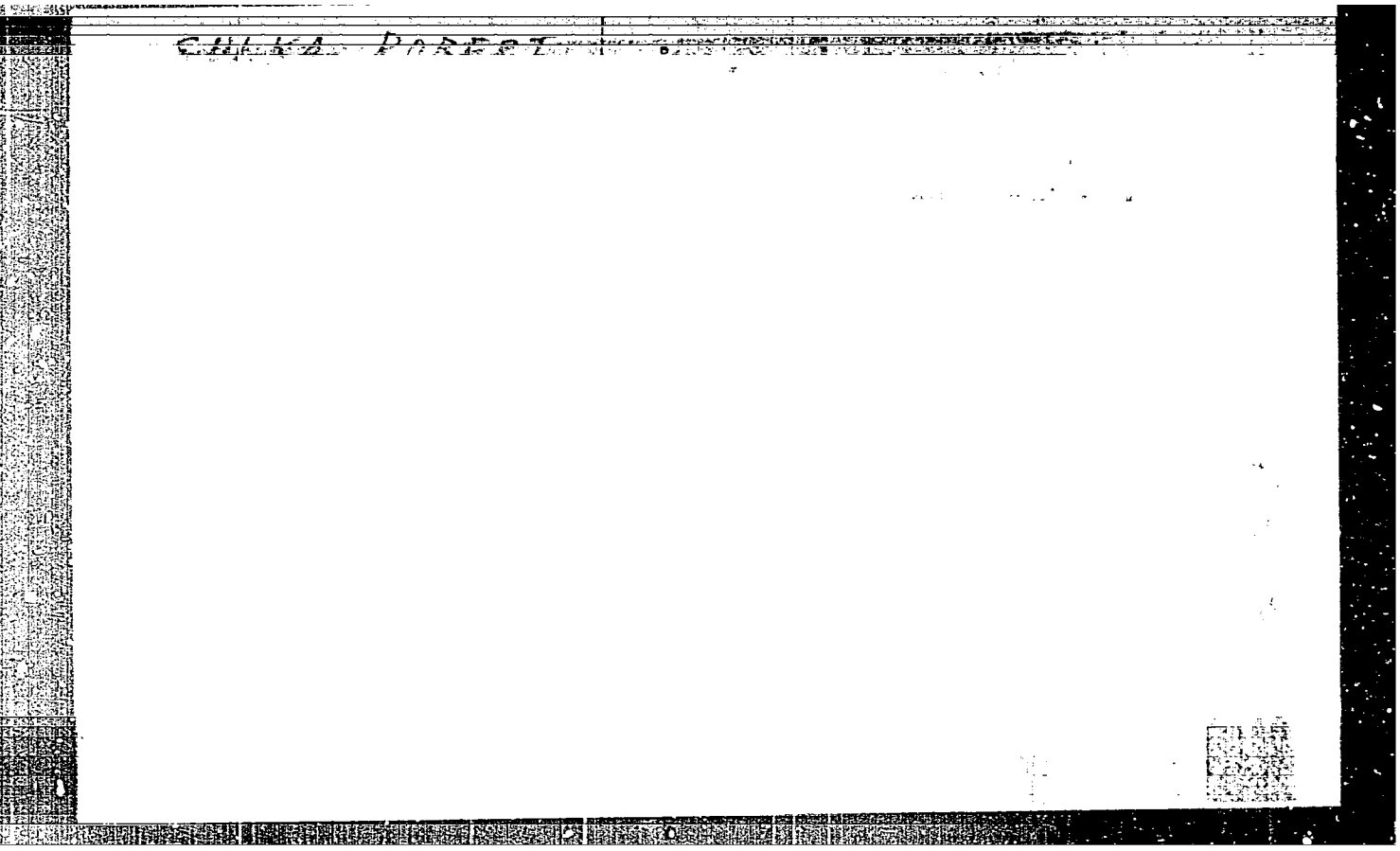
How to apply the system of premiums in our enterprises. p. 9.
(Socijalna i zdravstvena politika, Vol. 9, No. 12, 1956, Brograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

SULJAGIC, T.

Some reflections on the organization of work. p. 28.
(Socijalna i zdravstena politika, Vol. 10, No. 4, 1957, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.



SILFA, E.

S[illegible], E. A note on the isomorphism of topologic factoroids. p. 137.

Vol. 6, No. 3, 195[illegible]
MATHEMATICO-FIZIKALNY CASOPIS.
SCIENCE
Bratislava, Czechoslovakia

So: East European Accession, Vol. 6, No. 3, March 1957

SULKA, R.

"Isomorphism of topological groupoids."

p. 143 (Matematicko-Fyzikalny Casopis) Vol. 7, no. 3, 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

7079:
Šulka, Robert, On the maximal common refinement and the minimal common covering of two topological factoroids. Mat.-Fyz. Časopis. Slovensk. Akad. Vied 8 (1958), 20–26. (Slovak. Russian and English summaries)

Conditions are given under which the maximal common refinement or, respectively, the minimal common covering of two topological factoroids on a topological groupoid is a topological factoroid [for notions involved cf. R. Šulka, same Časopis 5 (1955), 10–21; 6 (1956), 137–142; 7 (1957), 143–157; MR 16, 997; 20#2401, #5246].

M. Katětov (Prague)

SULKA, Robert

Remark on factor semigroups of a given semigroup. Mat fyz cas SAV 13 no. 3: 205-208 '63.

1. Katedra matematiky a deskriptivnej geometrie, Elektrotechnicka fakulta Slovenskej vysokej skoly technickej, Bratislava, Gottwaldovo namesti 2.

SHULKA, Robert [Sulka, Robert]

On nilpotent elements, ideals and radicals of a semigroup. Mat fyz cas SAV 13 no. 3: 209-222 '63.

1. Katedra matematiky a deskriptivnej geometrie, Elektrotechnicka fakulta Slovenskej vysokej skoly technickej, Bratislava, Gottwaldovo namesti 2.

L 60287-65 EWT(d) IJP(c)

ACCESSION NR: AP5021201 CZ/0045/64/000/004/0297/0300

AUTHOR: Sulka, Robert (Shulka, Robert) (Bratislava)

TITLE: Radicals in factor semigroups

SOURCE: Matematicko-fyzikalny casopis, no. 4, 1964, 297-300

TOPIC TAGS: group theory, factor analysis

Abstract (Author's English summary, modified): Let S be a semigroup and J a two-sided ideal in S. Let $\overline{S}$ be a factor semigroup on S, $\overline{J}$ a factor semigroup on J and $\overline{J} \subset \overline{S}$. The set of all nilpotent elements of the factor semigroup $\overline{S}$ with respect to the ideal J will be denoted by $N(\overline{S}, \overline{J})$; the Clifford radical of the factor semigroup $\overline{S}$ with respect to the ideal $\overline{J}$ will be denoted by $R^*(\overline{S}, \overline{J})$; the Schwarz radical of the factor semigroup $\overline{S}$ with respect to the ideal $\overline{J}$ will be denoted by $R(\overline{S}, \overline{J})$.

If $\overline{S}_1$ and $\overline{S}_2$ are two factor semigroups on (or in) S, we can form a new factor semigroup $\overline{S}_1 \frown \overline{S}_2$ on (or in) S, every class of which is a non-empty intersection of a class of S_1 and a class of S_2.

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L 60287-65

ACCESSION NR: AP5021201

Let $\bar{S}_1$ and $\bar{S}_2$ be factor semigroups on S, $\bar{J}_1$ be an ideal in $\bar{S}_1$ and $\bar{J}_2$ an ideal in $\bar{S}_2$. Then we have

$$1)\ M(\bar{S}_1, \bar{J}_1) \sqcap M(\bar{S}_2, \bar{J}_2) = M(\bar{S}_1 \sqcap \bar{S}_2, \bar{J}_1 \sqcap \bar{J}_2);$$
$$2)\ R^*(\bar{S}_1, \bar{J}_1) \sqcap R^*(\bar{S}_2, \bar{J}_2) = R^*(\bar{S}_1 \sqcap \bar{S}_2, \bar{J}_1 \sqcap \bar{J}_2);$$
$$3)\ R(\bar{S}_1, \bar{J}_1) \sqcap R(\bar{S}_2, \bar{J}_2) = R(\bar{S}_1 \sqcap \bar{S}_2, \bar{J}_1 \sqcap \bar{J}_2).$$

Orig. art. has 6 formulas.

ASSOCIATION: Katedra matematiky a deskriptivnej geometrie Elektrotechnickej fakulty Slovenskej vysokej skoly technickej, Bratislava (Department of Mathematics and Descriptive Geometry, Electrical Engineering Faculty, Slovak Institute of Technology)

SUBMITTED: 11Nov63 ENCL: 00 SUB CODE: MA

NO REF SOV: 001 OTHER: 001 JPRS

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L 3013-66 EWT(d) IJP(c)

ACCESSION NR: AP5026941 CZ/0045/65/000/001/0003/0014

AUTHOR: Sulka, Robert (Shulka, Robert)(Bratislava)

TITLE: Radicals and topology in semigroups

SOURCE: Matematicko-fyzikalny casopis, no. 1, 1965, 3-14

TOPIC TAGS: topology, group theory, set theory

ABSTRACT: [Author's English summary, modified]: Let S be a semigroup and M a nonvoid subset in S. The set of all elements $x \in S$ for which there exists a positive integer n(x), so that $x^{n(x)} \in M$, will be denoted by $\mathfrak{N}(M)$. The intersection of all completely prime ideals which contain M will be denoted by C(M). The mappings $M \to \mathfrak{N}(M)$ and $M \to C(M)$ are closure operators and a topology is associated with each of them. The algebraid characterizations of closed and open sets and of the complete systems of neighborhoods of these topologies are given. For the first of those topologies the following statements are equivalent: a) it

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is a T_1-topology; b) it is a T_2-topology; c) it is the discrete topology; d) every element of the semigroup S is idempotent. The first of these topologies is a T_0-topology if and only if the semigroup S does not contain cyclic subgroups of higher order than 2. The second of these topologies is a T_1-topology if and only if the semigroup S has only one element. The second of these topologies is a T_0-topology if and only if the semigroup S is a commutative semigroup of idempotent elements. The multiplication in the semigroup S in the first of these topologies need not be continuous, but in the second topology it always is continuous. These topologies are equivalent if and only if S has only one element. Orig. art. has: 21 formulas.

ASSOCIATION: Katedra matematiky a deskriptivnej geometrie, Elektrotechnickej fakulty, Slovenskej vysokej skoly technickej, Bratislava (Department of Mathematics and Descriptive Geometry, Electrical Engineering Faculty, Slovak Institute of Technology)

44,55

SUBMITTED: 21Oct63 ENCL: 00 SUB CODE: MA
NR REF SOV: 002 OTHER: 001 JPRS

Card 2/2 nd

AID P - 1661

Subject : USSR/Electricity - Engineering

Card 1/2 Pub. 28 - 1/9

Authors : Sulkanishvili, I. N. and Shkol'nikov, B. M.

Title : On the article "On efficiency of electric drive used for drilling oil wells" (Published in Energ. byul., No.1, 1955)

Periodical : Energ. byul., 2, 1-4, F 1955

Abstract : The authors discuss and minutely analyze the original article on improvement of drilling oil well machinery, and make the following suggestions: 1) several electric drive models should be designed and built for shallow, deep, and very deep wells instead of the present two; 2) the hoists and rotary tables should be operated by a high-voltage electric drive; 3) an independent drive should be added for auxiliary operation in lowering and hoisting tools; 4)the hoist and rotary table drive mechanisms should have electromagnetic couplings; 5) there should be individual electric control equipment at a drilling site; 6) the AC drives should be used for diesel drilling outfits 7) the mud pumps should have a variable-speed drive.

Institution: None

Submitted : No date

SULKARNEYEV, K. A.

GALDIN, B. M., IVANENKO, V. P., SULKARNEYEV, K. A.

"Correlation of the Normal Components of pp-Scattering Polarization at 650 Mev. II"

report presented at Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962

Joint Inst. for Nuclear Research
Lab. of Nuclear Problems

SULKHANAURI, M. P., Cand Phys-Math Sci --"Certain problems of summarizing binary series and binary integrals." Tbilisi, Pub House of Acad Sci GSSR, 1961. (Acad Sci GSSR. Tbilisi Math Inst im A. M. Razmadze) (KL, 8-61, 229)

SULKHANISHVILI, G.I.

Numerical integration of parabolic equations. Trudy Mat. inst. AN Gruz. SSR 29:333-357 '63. (MIRA 17:12)

SULKHANISHVILI, G.I.

Numerical solution of a generalized polyharmonic inhomogeneous equation. Soob. AN Gruz. SSR 31 no.1:3-8 Jl '63. (MIRA 17:7)

1. Tbilisskiy matematicheskiy institut imeni A.M. Razmadze AN Gruzinskoy SSR. Predstavleno akademikom Sh.Ye. Mikeladze.

B12

ACCESSION NR: AP4031759 S/0251/64/033/003/0513/0520

AUTHOR: Sulkhanishvili, G. I.

TITLE: Numerical solution of parabolic equations (Presented by Sh. Ye. Mikeladze, Academician, 1 November 1963)

SOURCE: AN GruzSSR. Soobshcheniya, v. 33, no. 3, 1964, 513-520

TOPIC TAGS: parabolic equation, cylindrical region, Fourier method, separation of variables, convergent series

ABSTRACT: The author studies the differential equation

$$\frac{\partial U}{\partial t} = L(\Delta)U, \qquad (1)$$

where

$$\Delta \equiv \frac{\partial^2}{\partial x_1^2} + \cdots + \frac{\partial^2}{\partial x_p^2}, \qquad (2)$$

$$L(\Delta) \equiv \sum_{s=0}^{m} a_s \Delta^s \ (m \geq 1,\ a_s = \text{const},\ a_m \neq 0,\ \Delta^s = \Delta(\Delta^{s-1}),\ \Delta^0 = 1). \qquad (3)$$

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In the cylindrical region

$$D=G\times(0<t\leq T],\ G(0<x_s<l_s$$

s = 1,...,p) of the space $x_1,\dots,x_p$, t he seeks a solution of (1) satisfying the boundary conditions

$$(U, \Delta U, \dots, \Delta^{m-1}U)_S=(0, 0, \dots, 0) \qquad (4)$$

and the initial conditions

$$U(x_1, \dots, x_p, t)|_{t=0}=\varphi(x_1, \dots, x_p), \qquad (5)$$

where S is the lateral surface of D and $\varphi(x_1,\dots,x_p)$ is a continuous function, in the region G, which satisfies (4) on the boundary, Γ, of this region. The author assumes that

$$L(\varkappa)\leq 0 \qquad (6)$$

for any $\varkappa$ with $-\infty<\varkappa\leq 0$ for the scalar polynomial $L(\varkappa)\equiv\sum_{s=0}^{m} a_s\varkappa^s$.

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He derives

$$Au^{(n+1)} = Bu^{(n)}, \quad u^{(0)} = \varphi \left(n = 0, 1, \ldots, \frac{T}{l} - 1 \right), \tag{7}$$

where

$$A = E - 0lL(H), \tag{8}$$

$$B = E + (1-0)lL(H), \tag{9}$$

E is the identity matrix, H is an $(h^{-1}-1)^p$-dimensional symmetric matrix corresponding to the network analog of the Dirichlet problem for the Poisson equation

$$\Delta U = g(x_1, \ldots, x_p), \quad U|\Gamma = 0;$$

u^n is a $(h^{-1}-1)^p$-dimensional vector whose components serve as values of the function $u(x_1, \ldots, x_p, t)$ at certain lattice points S_n. The author proves various theorems concerning solvability and stability of (7) and the relation of the solution of (7) to the original problem. Orig. art. has: 19 formulas.

ASSOCIATION: Akademiya nauk Gruzinskoy SSR, Tbilisskiy matematicheskiy institut

Card 3/4

ACCESSION NR: AP4031759

im. A. M. Razmadze (Academy of Sciences, Georgian SSR, Tbilisi Institute of Mathematics)

SUBMITTED: 01Oct63 DATE ACQ: 03May64 ENCL: 00

SUB CODE: MA NO REF SOV: 002 OTHER: 000

Card 4/4

SULKHANISHVILI, G.I.

Use of the method of differences in solving a generalized Riquier problem. Soob. AN Gruz. SSR 29 no.1:3-8 Jl '62. (MIRA 18:5)

1. Tbilisskiy matematicheskiy institut im. A.M.Razmadze. Submitted August 26, 1961.

SULKHANISHVILI, I., kand.tekhn.nauk (Lyubertsy, Moskovskaya oblast')

Checking instantaneous exposures of shutters. Sov.foto. 19 no.1:57-59 Ja '59. (MIRA 12:3)

(Shutters, Photographic--Testing)

SULKHANISHVILI, I.

Exposure meter and photographic printing. Sov.foto 20 no.4:38 Ap '60. (MIRA 13:8)

(Photography—Printing processes)
(Photography—Equipment and supplies)

SULKHANISHVILI, I.

Useful book ("Reproduction photography" by I.B.Minenkov. Reviewed by I.Sulkhanishvili). Sov.foto 20 no.8:46 Ag '60. (MIRA 13:8)
(Photography--Reproduction of plans, drawings, etc.)

KHVOLES, A.R.; SULKHANISHVILI, I.G.

A method simplifying the mechanization of the numerical solution of certain problems. Trudy Vych.tsentra AN Gruz.SSR 2:315-318 '62. (MIRA 16:1)

(Polynomials) (Electronic calculating machines) (Numerical calculations)

SULKHANISHVILI, I.N.

Controlling the operation of the electric drive of boring machines by changing the frequency of an alternating current. Energ.biul. no.11:23-30 N '53.
(MLRA 6:10)
(Electric driving) (Boring machinery)

SULKHANISHVILI, I. N.

AID P - 806

Subject : USSR/Electricity

Card 1/1 Pub. 28 - 5/7

Author : Sulkhanishvili, I. N.

Title : An alternating frequency device for control of induction short-circuited motor

Periodical : Energ. byul., #8, 17-24, Ag 1954

Abstract : A new circuit is described and the result of experimental study of the installation is analysed in respect to the reliable performance of the device. The regulating characteristics approach the characteristics of the circuit for generator D-C motor. 4 diagrams, 6 charts and 1 table.

Institution : None

Submitted : No date

SULKHANISHVILI, I.N.

AID P - 1891

Subject : USSR/Electricity-Engineering

Card 1/1 Pub. 28 - 3/7

Authors : Sulkhanishvili, I. N. and Shkol'nikov, B. M.

Title : Controlled electric drive for mud pumps in turbine drilling

Periodical : Energ. byul., no.4, 15-20, Ap 1955

Abstract : The authors discuss the problem of obtaining higher efficiency from an electric drive and mud pump used in turbine oil drilling. Three practical suggestions to improve turbine drilling are made. Six diagrams.

Institution: None

Submitted : No date

SULKHANISHVILI, I.N.; SHKOL'NIKOV, B.M.

Drilling rig drive with electromagnetic clutches. Energ.biul. no.2:11-17 F '56. (MLRA 9:5)
(Oil well drilling--Equipment and supplies)

SULKHANISHVILI, I.N.

KTS-1 compounding equipment for low capacity synchronous generators.
Energ.biul.no.7:11-15 Jl '56. (MLRA 9:10)
(Electric generators) (Voltage regulators)

SULKHANISHVILI, I.N.

DMB-2 diesel-electric a.c. drive for turbodrilling rigs. Energ. biul. no.9:5-8 S '56. (MLRA 9:11)
(Turbodrills)

8(2); 28(1) PHASE I BOOK EXPLOITATION SOV/1433

Soveshchaniye po avtomatizirovannomu elektroprivodu peremennogo toka, Moskva, 1955

Trudy... (Transactions of the Conference on Automated A-C Electric Drives) Moscow, Izd-vo AN SSSR, 1958. 358 p. 4,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.

Resp. Ed: V.S. Kulebakin, Academician, and M.G. Chilikin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: D.M. Ioffe; Tech. Ed.: I.P. Kuz'min.

COVERAGE: The conference was organized on the initiative of the Institute of Automation and Telemechanics of the Academy of Sciences, USSR, and the Moscow Power Engineering Institute and had as its aim the planning of the most progressive ways of developing automatic control of electric drives. The first conference on the subject of automated electric drive took place more than ten years before the present one and was concerned with d-c electric drives. The results of this conference were found to be most valuable in the task of rebuilding postwar Soviet industry and in furthering industrial development. Present technical development, reliability demands high speeds, simplicity of construction, motor of operation, and economy. The squirrel-cage induction motor with frequency control appears to be the most promising type of controlled a-c drive. For wide application of this drive in the Soviet economy there is a need of developing new types of frequency converters. Some interesting studies were made in this connection at the Institute of Automation and Telemechanics of the USSR Academy of Sciences and its Leningrad branch, at the Moscow Power Engineering Institute, the Central Design Bureau of the "Elektroprivod Plant, the State Design Institute of the Ministry of Construction of the RSFSR, and in other design organizations. The transactions contain material at the present conference. The transactions contain material concerning the theory and design of reactor, pulse, and frequency methods of controlling a-c electric drives. Candidate of Technical Sciences I.V. Utkin and Engineer V.A. Kakorova participated in the preparation of this collection of papers. The volume was reviewed by Professor Ya. V. Mitusov, Doctor of Technical Sciences. Some of the papers include a bibliography.

TABLE OF CONTENTS:

Card 11/31

AUTHOR: Sulkhanishvili, I.N. SOV/90-58-2-1/9

TITLE: On Some Test Stand Results with the Diesel-Electric AC Drive DEB-2 (O nekotorykh rezul'tatakh stendovykh ispytaniy dizel'-elektricheskogo privoda peremennogo toka DEB-2)

PERIODICAL: Energeticheskiy byulleten', 1958, Nr 2, pp 1-5 (USSR)

ABSTRACT: The author describes some test stand results with the diesel-electric drive DEB-2 obtained at the experimental drilling rig of the Giproneftemash. Diesels used were of G2-300 type. (The new equipment has already been dispatched for industrial operational tests). The experiments were aimed at: 1) testing the equipment; 2) testing the quality of load distribution between diesel-generators; 3) testing the start of an asynchronous motor driven by a diesel-generator, whose rated diesel-power was considerably lower than the capacity needed by the electromotor at the start. The author describes how the asynchronous motor is started even though it is driven by a diesel-generator whose capacity is insufficient for the purpose. The gap in power is compensated by the kinetic energy supplied by the diesel-generator flywheel mass. The author gives a formula for the approximate determination of the flywheel moment. Giving the mechanical

Card 1/2

On Some Test Stand Results with the Diesel-Electric AC Drive DEB-2

characteristics of the new system, he particularly stresses the lack of pushes and shocks as opposed to the phenomena observed at contactor-start of electric motors. The lifetime of the diesel is also lengthened.
There are 3 graphs, 1 circuit diagram and 1 oscillogram.

1. Drilling machines--Equipment 2. Diesel engines--Performance
3. Generators--Performance 4. Electric motors--Performance

Card 2/2

SULKHANISHVILI, I.N.

Magnetic clutch in connection with an a.c. diesel electric drive (from "Drilling," no.12, 1956). Energ. biul. no.2:p. 3 of cover F '58. (MIRA 11:1)

(Diesel engines)

AUTHOR: Sulkhanishvili, I.N. 90-58-3-4/9

TITLE: On D.I. Mar'yanovskiy's Article "The Electric Braking of Drilling Winches" (O stat'ye D.I. Mar'yanovskogo "Elektricheskoye tormozheniye burovykh lebedok")

PERIODICAL: Energeticheskiy byulleten', 1958, Nr 3, pp 11-14 (USSR)

ABSTRACT: The author deals with some points made by Mar'yanovskiy in his article which he feels are open to question. He points out that as the tackle rope from the winch unreels, the drum diameter of the winch must decrease by the amount of paid-out rope. The force on the running end of the rope should therefore be increased proportionally to the decrease in the drum diameter in order to keep the stretching moment constant. In constructing graphs of the "velocity function moment", Mar'yanovskiy's proposed method can be used for a preliminary estimate, but more exact results are obtained from an oscillogram of the lowering of the drilling instrument and a record of the speed of rotation of the winch drum. Formulae are given for determining the acceleration of the drum at varying stages of the process. The author stresses the need for automatic braking to relieve the operator from the considerable strain of manual

Card 1/2

On D.I. Mar'yanovskiy's Article "The Electric Braking of Drilling Winches"

braking. Manual braking may still be retained, but only for holding the instrument stationary. The braking moment at the end of the lowering should be twice that created by the weight of the load. Electric braking equipment with powder fillings need to be designed, which are lighter and cheaper than the synchronous machines.
There is 1 graph and 3 Soviet references.

1. Winches--Development 2. Brakes--Determination

Card 2/2

SULKHANISHVILI, L.M.

Electric drilling for gas in areas not supplied with electricity.
Gas. prom. no.4:11-14 Ap '58. (MIRA 11:4)
(Boring) (Gas, Natural)

AUTHOR: Sulkhanishvili, I.N. SOV-90-58-10-9/9

TITLE: An Electric Motor With Regulation of the Rotary Speed of the Shaft (Elektrodvigatel' s reguliruyemoy skorost'yu vrashcheniya vala)

PERIODICAL: Energeticheskiy byulleten', 1958, Nr 10, p 32 (USSR)

ABSTRACT: The article contains information from the Electrical Review, Vol. 848, Nr 2, May 1958. There is one diagram.

1. Electric motors--Control systems

Card 1/1

GOL'DSHTEYN, I.Ye.; SULKHANISHVILI, I.N.

Results of industrial testings of a diesel electric gas-well drilling unit. Gaz. prom. 4 no.7:7-12 Jl '59. (MIRA 12:10)
(Boring machinery)

SUD, Isaak Izrailevich, inzh.; SULKHANISHVILI, Ivan Nikolayevich, kand. tekhn. nauk; SHKOL'NIKOV, Bernard Markovich, kand. tekhn. nauk. Prinimal uchastiye ABRUKIN, A.L., kand. tekhn. nauk; SIDOROV, V.N., inzh., ved. red.; POLOSINA, A.S., tekhn. red.

[Oil-field electrical engineering handbook] Spravochnik neftepromyslovogo elektrika. [By] I.I.Sud, I.N.Sulkhanishvili, B.M.Shkol'nikov. Moskva, Gostoptekhizdat, 1961. 510 p. (MIRA 15:4)

(Petroleum industry--Electric equipment)

SULXHANISHVILI, I.N., kand.tekhn.nauk

Diesel-electric a.c. drive for drilling rigs having a 130-ton lifting capacity. Trudy Giprodeftemasha.Nefteprom.delo no.1:3-12 '61. (MIRA 15:8)
(Oil well drilling rigs--Electric equipment)

SULKHANISHVILI, I.N.

Operation of diesels in the diesel-electric drive of BU-50Br rig. Mash. i neft. obor. no.5:25-30 '63. (MIRA 17:8)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut neftyanogo mashinostroyeniya.

SULKHANISHVILI, I.N., kand. tekhn. nauk

Rectifier speed control system of an a.c. electric drive. Prom. energ. 18 no.10:24-27 O '63. (MIRA 16:10)

SULKHANISHVILI, I.N.

Calculating the time required for hoisting a drilling tool by drives having rigid and nonrigid characteristics. Mash. i neft. obor. no.6:7-13 '64. (MIRA 18:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut neftyanogo mashinostroyeniya.

SULAKHANISHVILI, Ivan Nikolayevich; KONISKIY, L.N., ved. red.

[Diesel-electric a.c. drives in drilling] Dizel'-elektricheskii privod peremennogo toka v burenii. Moskva, Nedra, 1964. 94 p. (MIRA 18:1)

SULKHANISHVILI, I.N.

Selecting the parameters of draw-works braking devices. Mash. i neft. obor. no.4:19-22 '63. (MIRA 17:8)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut neftyanogo mashinostroyeniya.

USSR/Human and Animal Physiology. Blood. Formed Elements of Blood. T-4

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55422.

Author : Sulkhanishvili, S.D., Chavchavadze, S.M.
Inst : Scientific Research Institute for the Health-protection of Mothers and Children.
Title : The Dynamics of the Hemogram, of the Sedimentation Erythrocyte Reaction, and of Blood Pressure in Physiological Childbirth.

Orig Pub: Sb. tr. N.-i. in-t okhrany materinstva i detstva GruzSSR, 1956, 7, 73-75.

Abstract: The observation of 40 parturient women (9 primapara and 31 multipara) during physiological childbirth revealed the presence of leukocytosis, as well as an

Card : 1/3

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55422.

increase in the number of neutrophils in the peripheral blood, which developed at the expense of lymphocytes and eosinophils. A relative and an absolute neutrophylic leukocytosis with a slight displacement to the left was observed during the second delivery period (of maximal labor pains), whereby the erythrocytic sedimentation reaction (ESR) was considerably faster. During the third period (2 hours after delivery), the number of leukocytes in the peripheral blood decreased, and multinuclear neutrophils predominated. A relative and an absolute eosinopenia was observed during the second as well as during the third periods. A rela-

USSR/Human and Animal Physiology. Blood. Formed Elements of Blood. T-4

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55422.

tive monocytosis was noted on the 8th day after delivery. ESR remained accelerated until the 8th day after delivery.

Card : 3/3

KIRIYA, . . . SULKHANISHVILI, T.S.; DILANOV, G.M.

. . . with antifriction valve grooves in deep drilling.
M. . . neft. obsh. . . . . (MIRA 18:6)

1. Gruzinskiy gornogo . . . im. I.A./Sulakidze, Tbilisi.

Country : USSR K
Category: Forestry. Forest Cultures.

Abs Jour: RZhBiol., No 11, 1958, No 48805

Author : ~~Sulkhanov, I.P.~~ Tseplyayev, I.P.
Inst : -
Title : A Hundred-Year Experiment in Forest Cultivation in the Khrenov Pine Forest.

Orig Pub: Lesn. kh-vo, 1957, No 11, 39-45

Abstract: No abstract.

Card : 1/1

Chem Abs v48
1-25-54
Glass. Clay Products

Characteristics and service of improved electromelted zirconia mullite refractory. N. V. Solomin, N. M. Galdina, A. A. Galst'yan, M. B. Sulkhanov, and G. A. Karnaushenko. *Steklo i Keram.* 10, No. 3, 28–33(1953).—Tests were made in glass-melting furnaces of ZrO_2–mullite refractories contg. (a) not over 5.43% fluxes and (b) 6.48%. Stability of (a) was 20–30% higher and the corrosion more uniform.

B. Z. Kamich

1-14-54

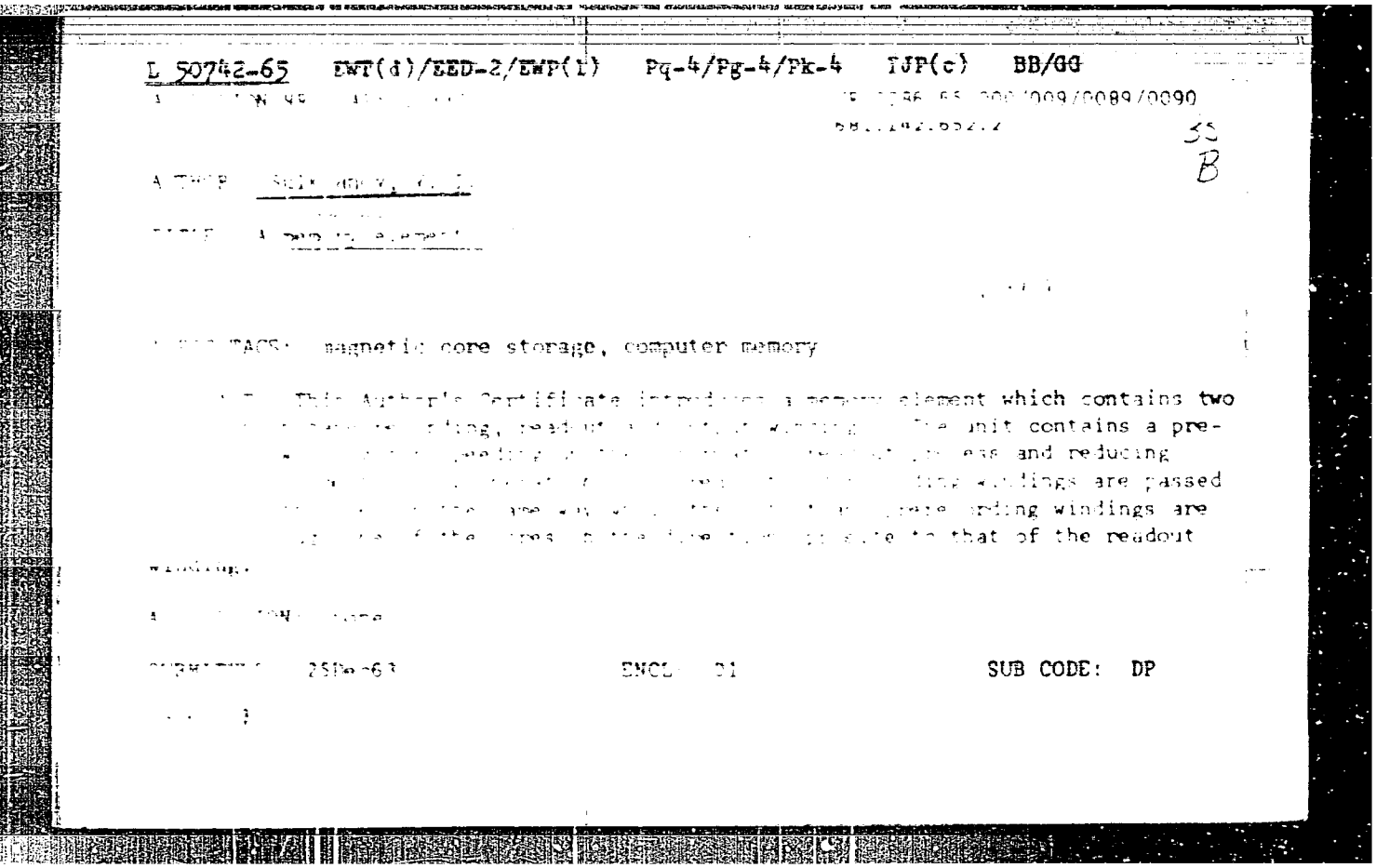
SOLOMIN, N.V., doktor tekhnicheskikh nauk, professor; GALDINA, N.M.; SULKHANOV, M.B.; LODOCHKIN, P.A.

Manufacture and industrial testing of "bakor." Stek. i ker. 13 no.9:9-14 S '56. (MLRA 9:10)

(Refractory materials)

SULKHANOV, Petr Petrovich; VENTSENOSTSEV, Yuriy Nikolayevich; KARAVASHKIN, S.I., red.; MEL'NIKOVA, A.G., red. izd-va; VDOVINA, V.M., tekhn. red. (MIRA 14:10)

[Mechanization of riparian log dumps] Opyt mekhanizatsii rabot na prirechnykh lesnykh skladakh. Moskva, Goslesbumizdat, 1960. 46 p. (Lumbering--Equipment and supplies)



L 50742-65 EWT(d)/EED-2/EWP(t) Pq-4/Pg-4/Pk-4 IJP(c) BB/GG

55
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TAGS: magnetic core storage, computer memory

This Author's Certificate introduces a memory element which contains two ... unit contains a pre- ... ess and reducing ... ding windings are passed ... ding windings are ... to that of the readout ...

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SULKIEWICZOVA, V., ina.

Reports of the Branch Standardization Center CS H. Stav vyzkum no.4:24-25 S 62.

1. Vyzkumny ustav stavebni vyroby, Praha.

SUL'KIN, A.G.

DMOKHOVSKIY, V.V., SULKIN, A.G.

"A New X-Ray Machine" (Novaya rentgenovskaya ustanovka). Izd TsBTI Ministerstva elektropromyshlennosti SSSR (Publishing House of Central Bureau of Technical Information, Ministry of the Electrical Industry, USSR), 96 pp., 1947.

VEINBERG, M.Sh., inzhener; SUL'KIN, A.G., inzhener.

Gamma-apparatus in medicine. Nauka i zhizn' 22.no.11:50 N '55.
(Gamma rays--Apparatus and supplies) (MLRA 9:1)

SUL'KIN,A.G., inzhener; SHCHEGLOV,A.G.

Gamma-ray metal-flaw detectors. Vest.mash.35 no.8:61-63 Ag'55.
(MLRA 8:10)
(Gamma rays--Industrial applications)

112-2-3892

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 2, p.195 (USSR)

AUTHOR: Sul'kin, A.G.

TITLE: A Device for Recording the Characteristics of Flat Movement (Pribor dlya zapisi kharakteristiki ploskogo dvizheniya)

PERIODICAL: Sb. rats. predlozheniy. M-vo elektrotekhn. prom-sti SSSR, 1955, Nr 55, pp.13-15

ABSTRACT: A simple mechanism which uses a synchronous electric motor to move a pencil along rectilinear slide guides is proposed.

V.F.P.

Card 1/1

112-2-3304

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 2, p. 114 (USSR)

AUTHOR: Sul'kin, A. G., Shcheglov, A. G.

TITLE: A Device for Vacuum Filling of Unit Transformers (Proposed by Yu. N. Malinovkin) (Prisposobleniye dlya zalivki blok-transformatorov pod vakuumom) (Predlozheniye Yu. N. Malinovkina)

PERIODICAL: Sb. rats. predlozheniy. M-vo elektrotekhn. prom-sti SSSR, 1955, Nr 55, pp. 18-19

ABSTRACT: A device is briefly described for increasing the efficiency of vacuum filling of several unit transformers with oil in the production of X-ray apparatus at the "Mosrentgen" plant. The most important part of the device is a valve which is automatically closed by a special float when the oil in each transformer attains the required level.

L.M.Sh.

Card 1/1